

IPAR.003177

Thurs. July 21, 1960 Dep. N.H.

Fri. July 22 cover Pt. Gale

Pink, Pneumatized. Site in afternoon - walked over Sections A-H, Raymond

1902. Full Amer. Palaeont., v. 3 no. 14, p. 12. Colls. figd at  
Section A. Univ.

Viewed only the upper

part of the sequence above.

Raymond - covered interval  
of 1000 feet. Murchisonites

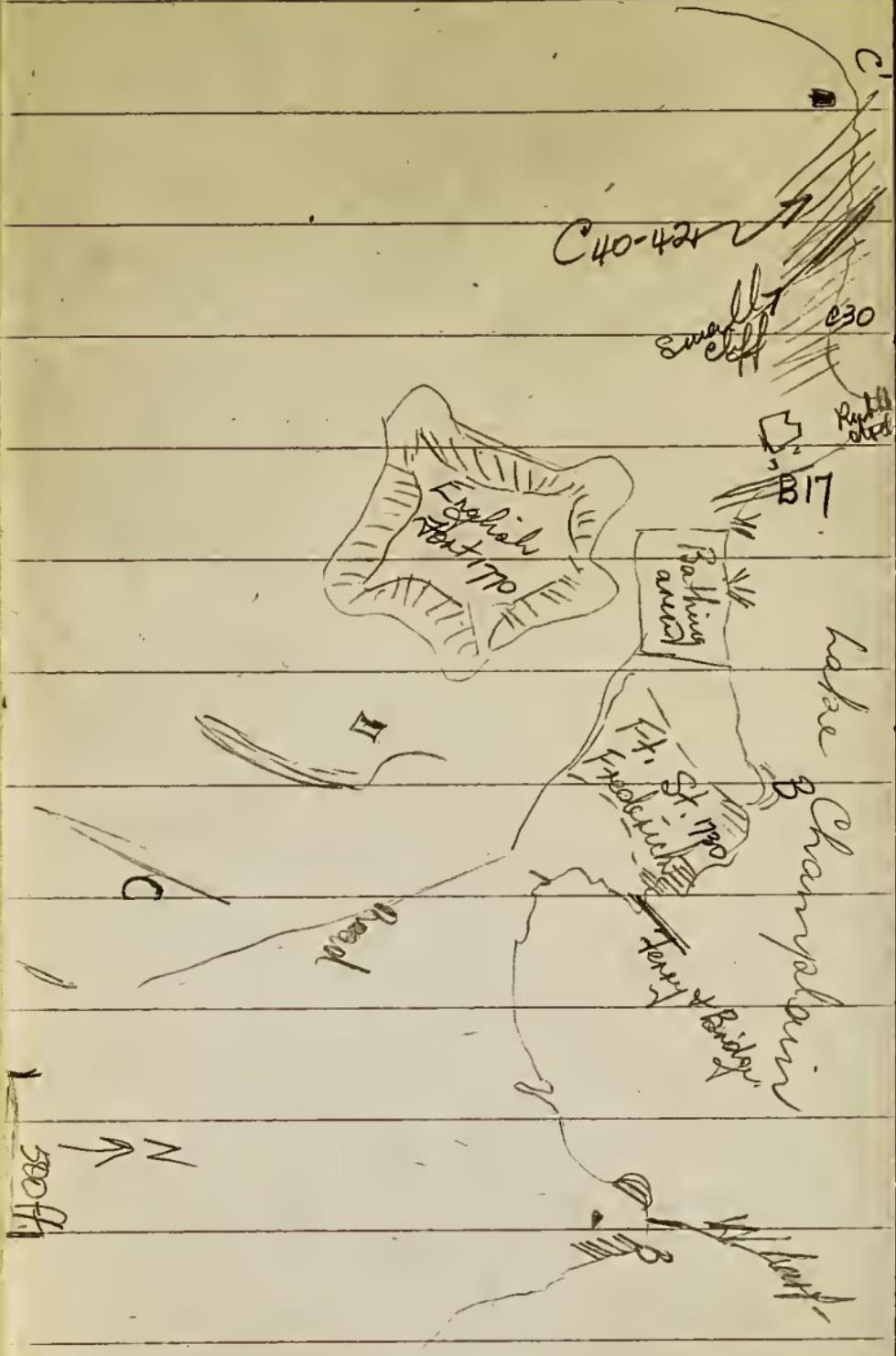
in massive sandy beds.

No good for collecting.

Section B-L, Raymond,

Still very sandy in  
basal part

No good my coll.



B-3. + two "Macrusters" +  
Stromatoporoids 7/23/60  
B-4 + Orthoceras

B6. + Stromatoporoids

B7. Stromatoporoids of brachs.

B-17. Black River <sup>Mr. Black</sup>  
massive limestone having solitary  
corals, brachs, & stromatoporoids,  
a stictopomid (not collected), Priavula

15 ft. above base of limestone  
large colonies of tabulate  
"Columnaria"

Taylor C-C.

lower part not productive of  
fossils - very sandy.

C-23. Same as above

limestone

limestone  
of traps. in P.M. which  
E. Cummings collected - thin  
lenses of calcarenite -  
part wash in black  
late which weathers  
white

C-24

These collections made in quarry

C-27. West of rubble dock

Fenestrals, Columnaria

Stromatoporoids

Machrites. No coll. made

C 30. Base of the Trenton

what remains of colls from Sect. C  
when unpacking

7/24/60

## Chazy Quarry Section

### Depth of quarry

Dolomite?

- 1.) Floor of quarry; ~~Sandstone~~, many brachiopods of Reticularia type, other frags. ————— 3" +
- 2.) Covered ————— 1' 3"  
Dolomite?
- 3.) Ls., dark gray, fine grained sand eyes, a lot of green-gray weathering sand  
blobs and bands, 4 to 6" beds  
separated by  $\frac{1}{2}$ " <sup>more</sup> shaly partings,  
which have more porosity (smaller size)  
———— 2  $\frac{1}{2}$ ' ~~in~~ <sup>more</sup> Pancetta  
~~or~~ <sup>more</sup> Pancetta ~~limestone~~ <sup>Unit 5.</sup>
- 4.) Ls., dark gray, v.f. grained calcarenous  
calcareous, appreciable clay + salt -  
Agricultural lime bed ————— 8'

7.) Ls., light gray to medium gray, <sup>black,</sup>  
when <sup>fresh</sup>  
6 to 8" beds, phytosphaera or tetrahedron  
beds, calcilutite with coarse  
calcareous bands which  
may contain "quartz" sand and  
most of the fossils (brachiopoda).

3' 3"

Main road  
level of quarry.

8.) "Dove gray" Ls., calcilutite, massive  
2 to 4 foot beds, scattered frags of  
fossil shells, interbedded with  
massive v.f. calcarenous having more  
common fossils near top of unit

calcilutite and calcarenite lithologies  
are interrupted in irregular lenses.]

— 14'

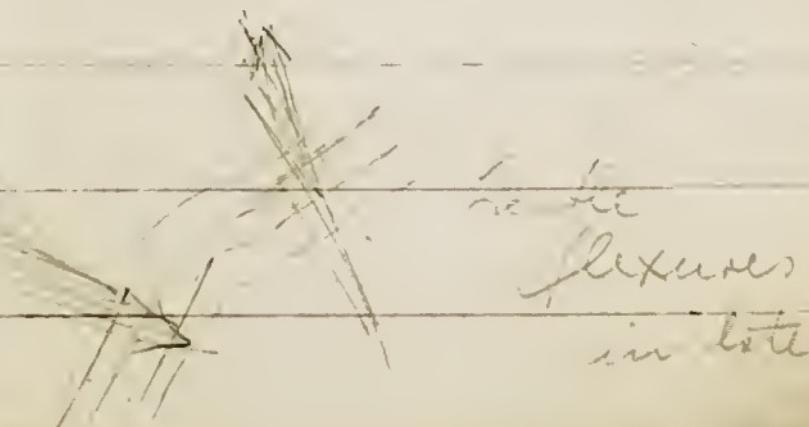
9.) Limestone, shale, wavy bedding,  
much mud in shaly partings, 2" to 4"  
beds. Quarryman's 26 inch shaly layer.  
Lie Chaumont. 2' 2"

— ↓ ?  
Trenton?

10.) Calcareous; med. gray, f. to med. sand  
size, <sup>calcareous</sup> grains, irregular bedding surfaces,  
poorly sorted fossil hash,  
tetracorals, algae or small stromatocerms,  
brachiopods, gastropods, the most  
fossiliferous of all of this sequence,

beds 2 to 6 feet thick, separated by  
1/2 inch shale partings. — 16 feet  
covered by glacial sand and  
conglomerates above 10 to 15 feet

Ordovician rocks here dip about  
5 or  $6^{\circ}$  to the NNW although there  
seems to be a shallow syncline  
across the <sup>North</sup> face of the Quarry so  
that the dips vary slightly.



7/24/60

Type

Thalassinoides. Base not exposed

Loc. M.A.A. Mineral?

Coll. Chappell. 3 ft above  
base  
Saccularoidal ls.

W. dolomitic w. coarse  
alcanite w. pebbles  
etc. ss.

Coll. 2 - 6 feet up in fossiliferous  
"crinoidal columnal conglomerate"

3. 2 ft. fine siltstone

w. fine siltstone brachi.

4. pebbles. <sup>oolites black</sup> lt. grey matrix +

4. lt. grey carbon +  
brachi. l. l. l.

12 ft.

Brownwood, Tex

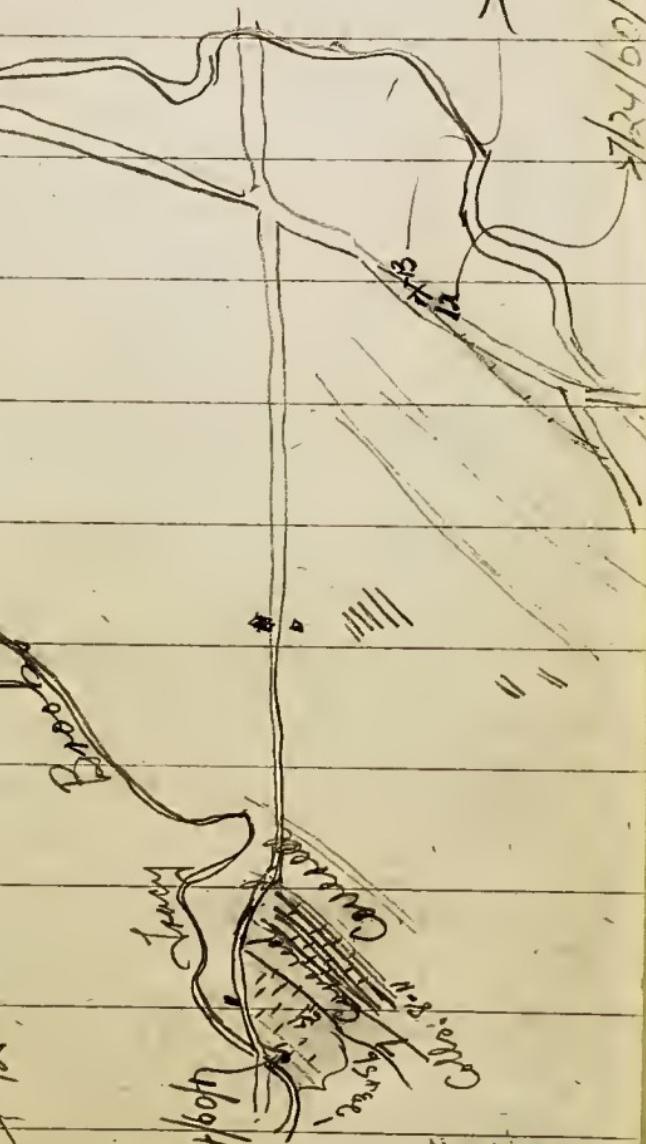
H.M.

The Original

Cherry Rocks; Vol. 2, 1888, no. 5, P. 323 - 330  
at Hesperia

Malvern Bx's.

1/24/69/11  
1/24/69/12  
1/24/69/13



7/24/60

5. Brauch. hash.

Cocose calcareous  
Coll. 5. med gray ft.

6. Weathers nubbly,

silty ls. bracke. Pen Bay  
4 ft.

7. Coconut intercal  
marsh sativa Teller 27  
77

8. Si*ri* i of ana' (

coll. 11) - cocone calc  
lava. Pen Bay <sup>Sand</sup> <sub>15 ft.</sub>  
thirty feet from

9. True shell trash

Coll. ht 20s 4ft.  
calcareous

7/24/60

10. True Saccostomid

Co. Denise. St. pag.

No fossils <sup>Maisonneuve</sup> 15 ft. <sup>10-11 in.</sup>  
horizon dips steeply.

11. 2.3 ft. <sup>8 in.</sup> Ente

conoids, tubercles,

few brachs. fine  
calcareous.

Cold quarry <sup>He 348</sup>  
Coll. 121 N.Y.

Near telephone pole.

End of quarry.

Coll. B 15 yds north of

telephone pole. Near N.  
end of quarry.

In the field we couldn't  
get Brainerd & Seeley's or  
Osley's sections to fit in  
w. field occurrence.

Osley did not remeasure  
Brainerd & Seeley's sections  
B-B' C-C'. My section  
is pretty much across the  
line of section taken by  
Osley but I doubt if it  
can match the section

In 7/24/60/13 there is  
a tectononal. This late  
would <sup>fit</sup> be in C-C. of  
B+S? — If H. Duncan is  
correct this late is at least middle  
howard

July 25.

Night of July 24 spent on  
Saranac R. at Cardyville.  
Very nice spring at foot of  
hill.

Morning July 25 Shipped  
120 lbs rocks from Plattsburgh,  
Rep. for Watertown via  
U.S. 3. Again impressed  
by poor Municipal facilities  
ie. beach etc. at Lake  
Saranac, lake Tupper  
hooked at exposures between  
Watertown & Rodman.  
to Sandy Creek Municipal  
park. Pine forest with  
excellent camping facilities  
No collections

July 26, Tuesday, 7/26/60

East of Rodman.

In stream. Exposures  
under bridge & up creek  
above stream junction with

Sandy Creek. Upper Coburg.

See Kay, 1933, Am. J. Sci., v. 26, p.

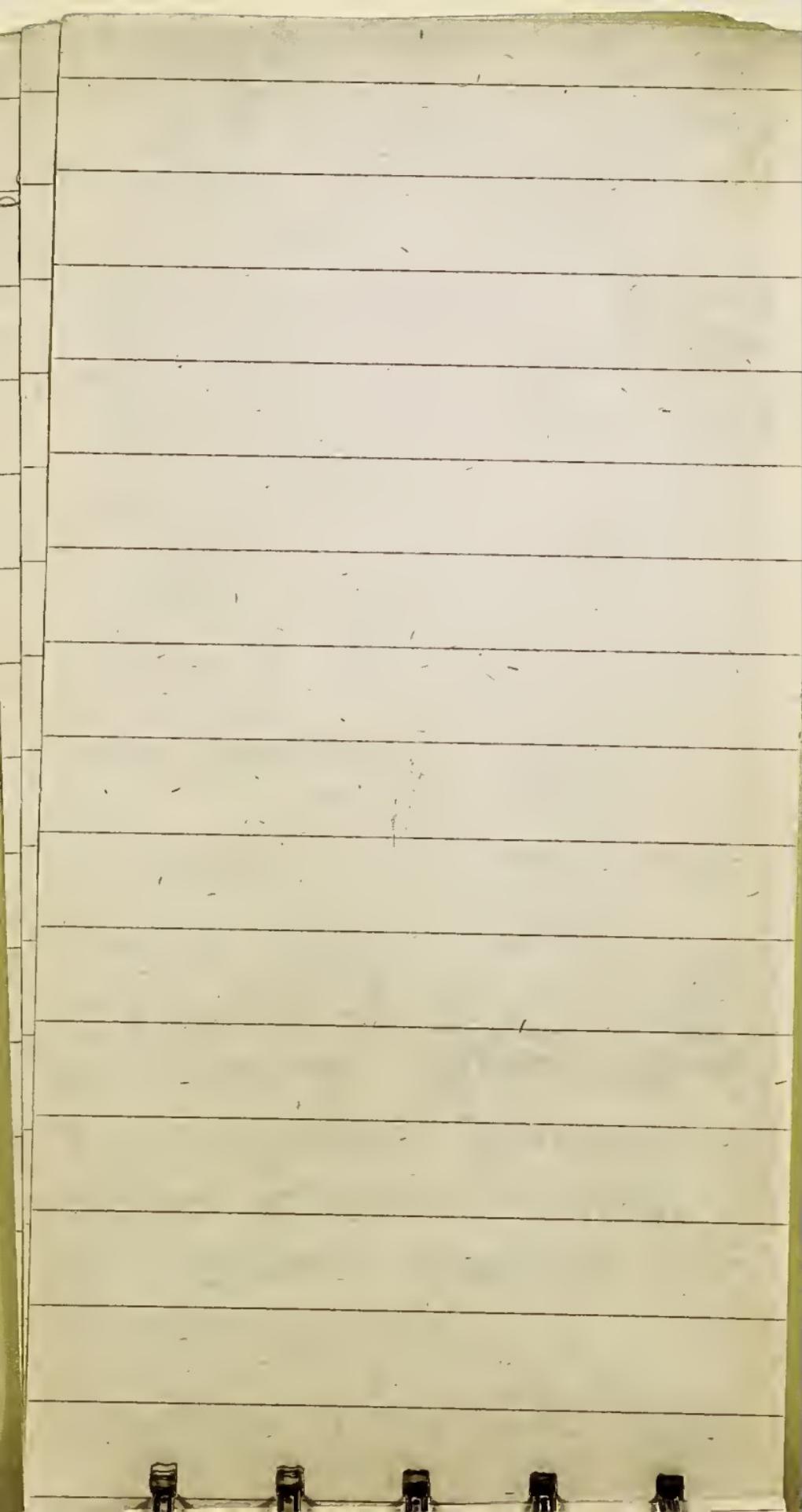
Coll. 1. Dense med. grey limestone  
(calcarenite) having mainly  
brachiopods. 4 ft.

Coll. 2. Dense med.-grey

limestone (calcarenite) of  
shell hash.屢々  
crinoid columnals & ~~terracane~~  
~~shard~~ abundant 6 ins.  
Bay, not abund - only colonial coral.

Coll. 3. Med. grey calcarenite

weathered mottly  
having "Leptaena", Solenites,  
Gryphaeids. 15 ft Some  
Bay -

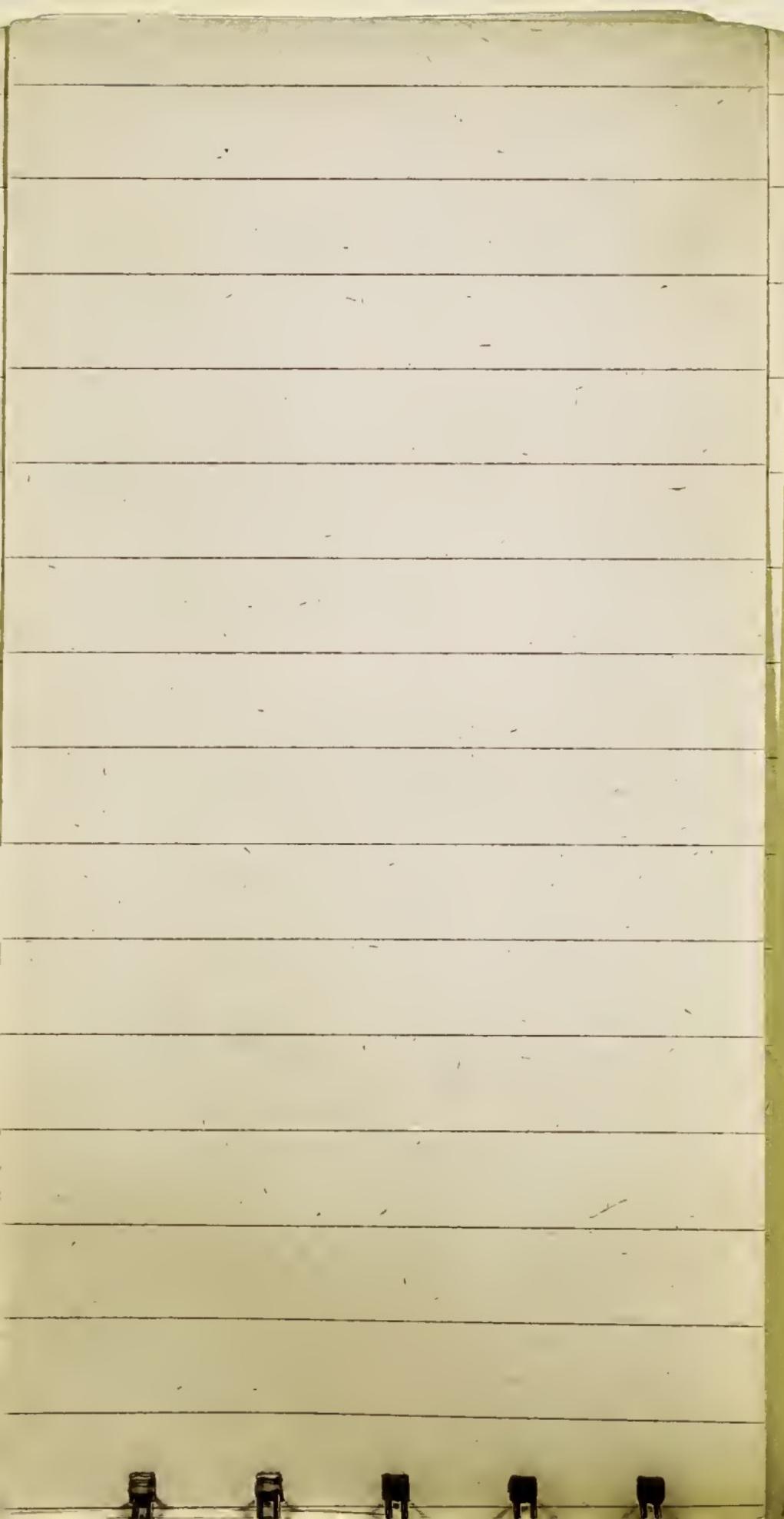


Coll. 4. Calcilitite -  
calcareous having  
"gastropod" v. abundant  
Some brachs. Bry. vist.  
absent

7/26/60

Quarry at Copenhagen

Coll. 5.7



First west of Pleasant lake 7/26/60

Coll. 7 8 ft from base of  
Sect. See loc. map  
over page

Coll. 6 Unit 3

Unit 1. Interbedded calcs.

Calcsilite, & dol./siliceous  
brachs. intercalated in fossil  
shales. Individual calcareous  
beds 1-2" thick, shale  $\frac{1}{2}$ -1"  
thick (lenticular). Shaly & lise  
surfaces rippled numerous.

This is in lower part of section  
weather grey brown & light  
grey. Med grey on fresh  
surface. Unit 1 is 16 ft

Coll. 7 8 ft from base thick

Unit 2 - 5  $\frac{1}{2}$  ft thick

Thick, calcareous massive

beds. 8-12" thick & 7/26/60  
interbedded abt. 1' inter-  
calcareous 1"-3" thick  
These beds are silicified

Unit 3. — 9½ ft.

Rapidly decreasing late  
shale. Mainly late,

beds 2"-3". Top of unit

marked by a re-entrant  
fluvial concretion sh. & some  
late & 18 ins zone Coll. 6

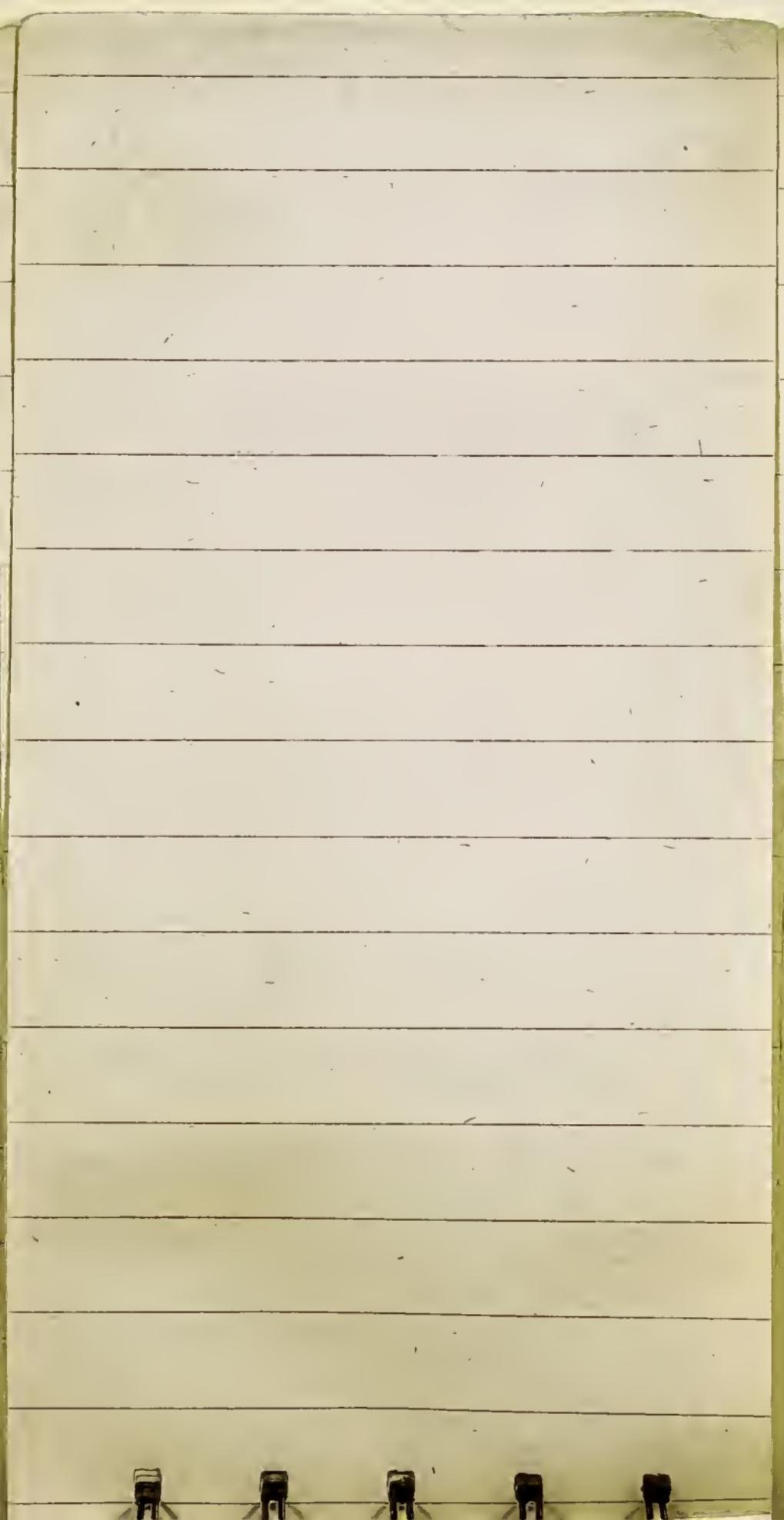
at level of re-entrant  
Cryptolithus constellaria.

Unit 4. — 10 ft. thick,

Same as unit

below again marked

by shale re-entrant  
6 ft at top



Unit 5. - 8 ft. 7/26/60

~~hole in surface.~~

unit 3. Narrow re-entrants

3' thick (shale) at 3 ft  
level. at 3 ft., 2 ft + 3 ft  
from base of unit.

7/26/60

Central wt factor of

Black River.

Auger Co. Mi  
Protogress, & "Calymeneia"  
hl. chert nodule.

Coll. S - columnaria

Approaching Calcium from  
town of Blacked River. 1 $\frac{1}{4}$  mi. W. N.Y. 26  
Second Black R. in this 1. 4 ft thick.

Coll 9. White sp. 21.1

w. waves of inciting - like  
the ~~of~~ of <sup>the</sup> <sup>the</sup> <sup>the</sup>

applied to secondary ton, to amaze  
horn single near top, thick  
blunt d. 2<sup>g</sup> thick

Same as before but angle  $\theta$   
is about  $10^{\circ}$

Coll. 10 Unit 3. 6 ms Spec.

Kodium.

1/26/60

Cut 200yd So of Calcium

top

~~bridgeman ls.~~

~~3'~~ silt ls., 1" beds between  $\frac{1}{4}$ " shaly beds

~~4'~~ dove gray 6" to 3' foot beds

~~2 $\frac{1}{2}$ '~~ slabby siltstone & thin calcareous

~~4'~~ dove gray, calcarenous, 4" to 2" beds

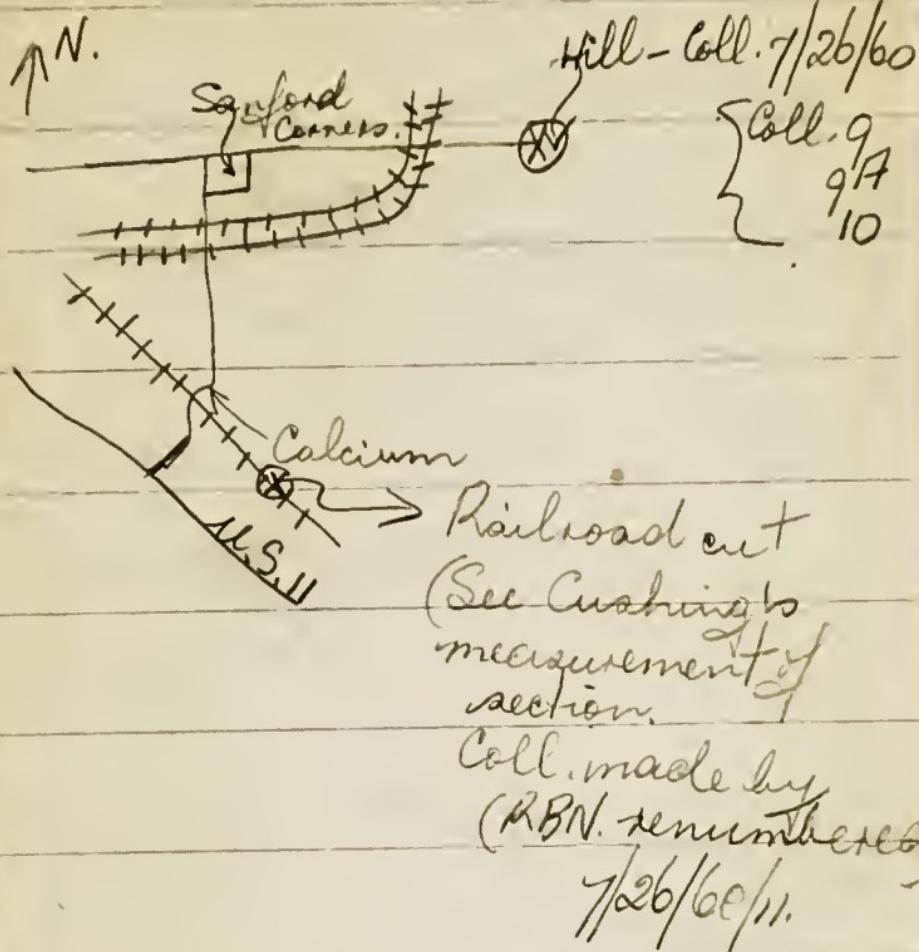
bryozoan  
ledge

~~3'~~ Calcareous, mid. gy. weathering, 6 to 10" beds

R.R. bed.

Tutor on coral. 7/26/60

near base of cliff - large  
mud blebs in fine calcareous  
matrix



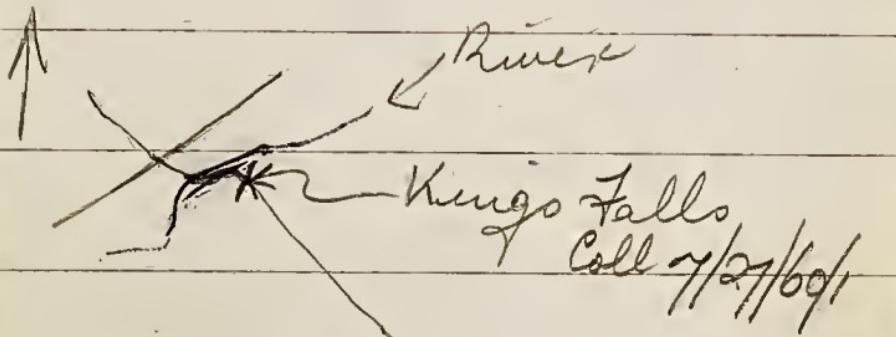
7/27/60

King's Falls, Deer River.

ledge at base of abutment  
3 ft above water level.

Praeopora, dalmatellids,  
large isotelids: abundant,  
also smaller Zyg., large  
Hebertella? Section at  
least 40 ft <sup>higher</sup> above river  
level. V. similar to  
that near Pleasant Lake 7/26/60  
Coll. 1. mainly Praeopora

See loc. maps over page.



Carthage Quadrangle  
15 min

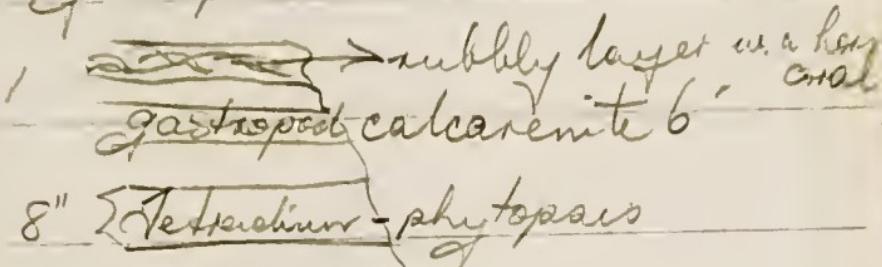
1 mile  
Scale

To location see map  
and page 7/27/60

1 ml. S. of Rte 3 at Big Bend

Ledge formed at surface  
for several miles.

8 ft exposed in road cut

muddy layer w. a few coral  
gastropod calcarenite 6'  
8" Tetraclitina - phytopsis

birdseye No. coll

1/2 ml. further S.

4 ft outcrop on east side of  
road low set of ledges.

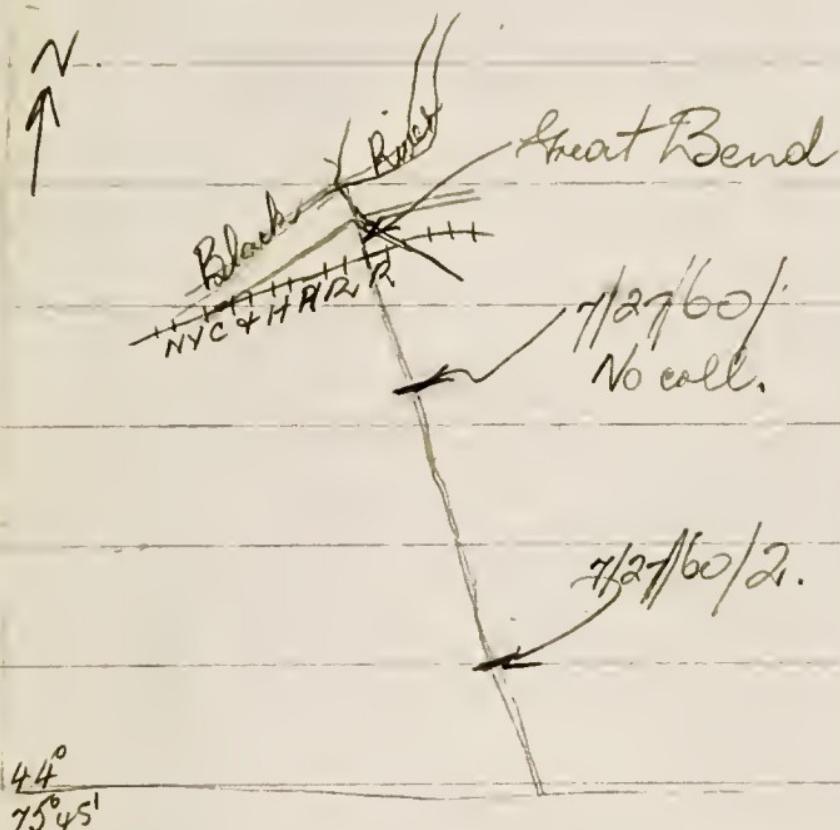
black rock - muddy coll. 2  
oyster shell  
birdseye.

Southernmost exposure shows  
faulting of late.

Near Champion Huddle 7/27/60  
Coll. 3. Nautiloid, Bry., corals.

Coll. 3A. Flat with  
dictyonids.

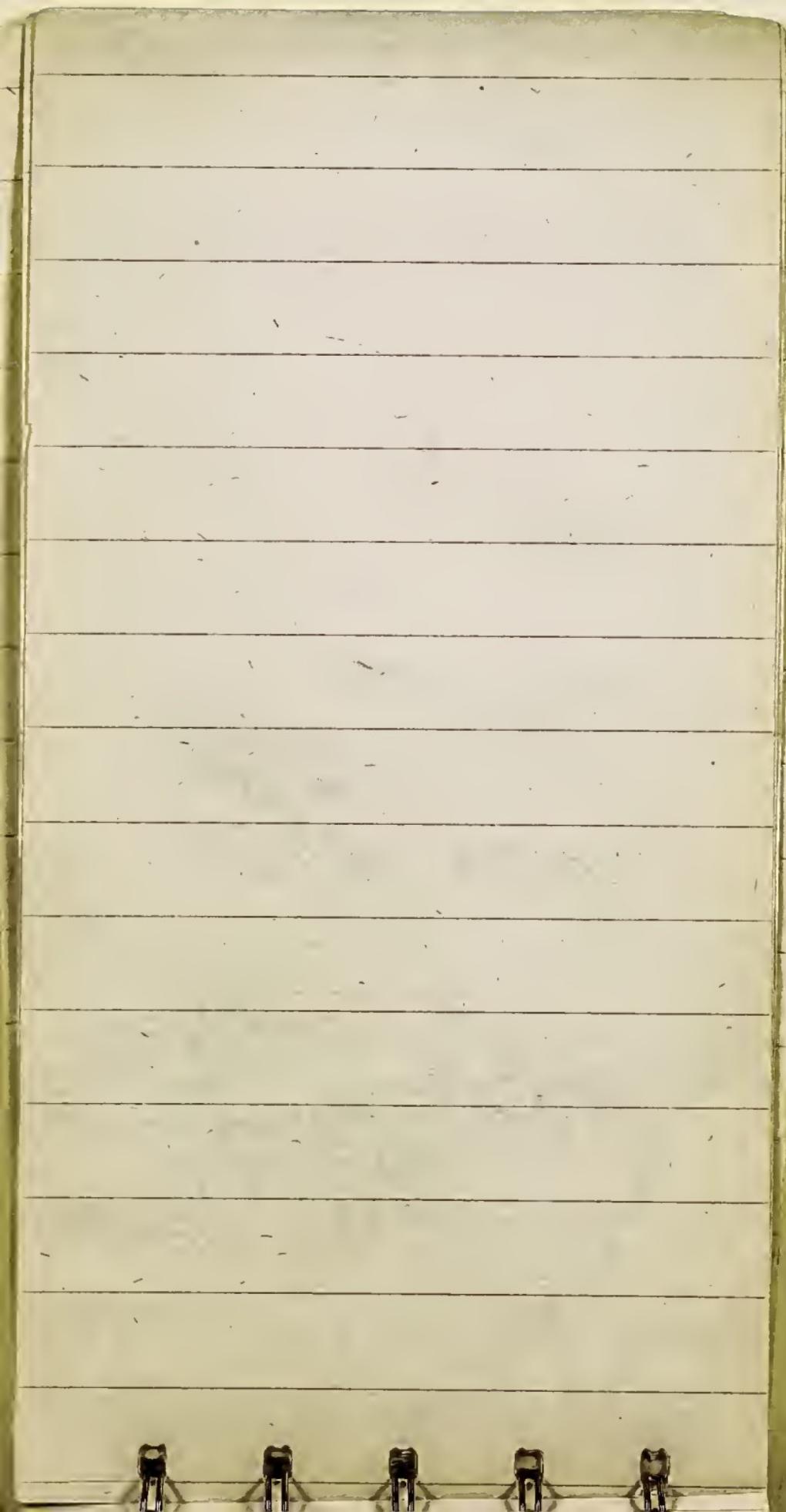
Exposure on W. side of road 8 ft.  
Silty calcarenite & calcilutite (lt. gray)  
Rockland Tm.



Antwerp 15 min. quadrangle.

Scale  
1 mile

Taken from Bull 296 N.Y. St. Mus.  
1934. Buddeus, F. & Eustermann



7/27/60.

Coll. 4.

Coll. 5

Col. 6.

Coll. 7

Abandoned quarry  
near Champion, N.Y.

N

7/27/60 3 + 3A.

7/27/60 4 - 7

Champion  
Hudson

Champion

N.Y. St. Mus. Bull. 296, 1934.

Cortlandt. 15 min. quadrangle

N.Y. State  
Scale  
1 mile

② cont., 2 silty-shale breaks, This forms a prominent weak zone in the quarry wall. ——  $2\frac{1}{2}'$

③ Bridgeway ls. dove gray calcilutite massive bed ——  $2\frac{1}{2}'$

④ Calcilutite and Calcareous interbedded & intertongued, irregular bedding surfaces, weathers to 2 12" layers —  $2'$

⑤ Calcilutite, med. gray,  $\frac{1}{2}$ " to 2" beds, shaly and silty interbeds less than  $\frac{1}{8}$ " thick, bedding surfaces irregular, contorted perhaps by load slumping —  $4'$

⑥ Calcareous <sup>med. gray</sup> having calcilutite matrix,  
3 to 4" beds, wavy bedding — 3'

⑦ Dove gray limestone, calcilutite,  
6" to 1 foot beds, even bedding  
surfaces compare to those below and  
above — Coll. 7 — 2 1/2

8.) like unit ⑥ — 7"

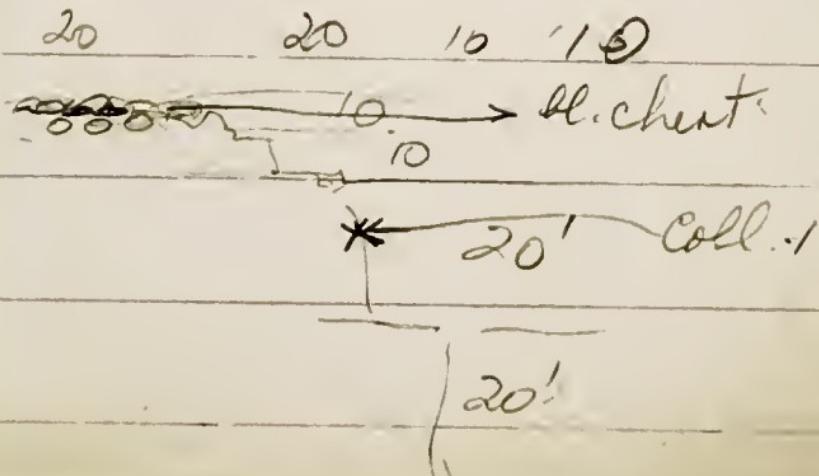
7/28/60.

NY 331

Lead from Lurin to Lyons  
Falls. Abandoned quarry

Coll. 1. [Horizon appears  
to be same as Coll. 14  
lithology, faunal assoc.

7/27/60.] Black River - howelle  
Higher on hill bl. &  
late. & <sup>bl.</sup> chest nodules  
exposed. At creek crossing  
(higher in section)  
near Lurin, Trenton is  
exposed.



7/28/00.

# Sugar River

Coll. 2. 2 ft. below falls.

Coll. 3. 6 ft below Coll. 2.

Coll. 4. 4 ft below Coll. 3.

~~Coll. 4. Four ft.~~ Pisoté marked  
long coenid stems oriented NE.

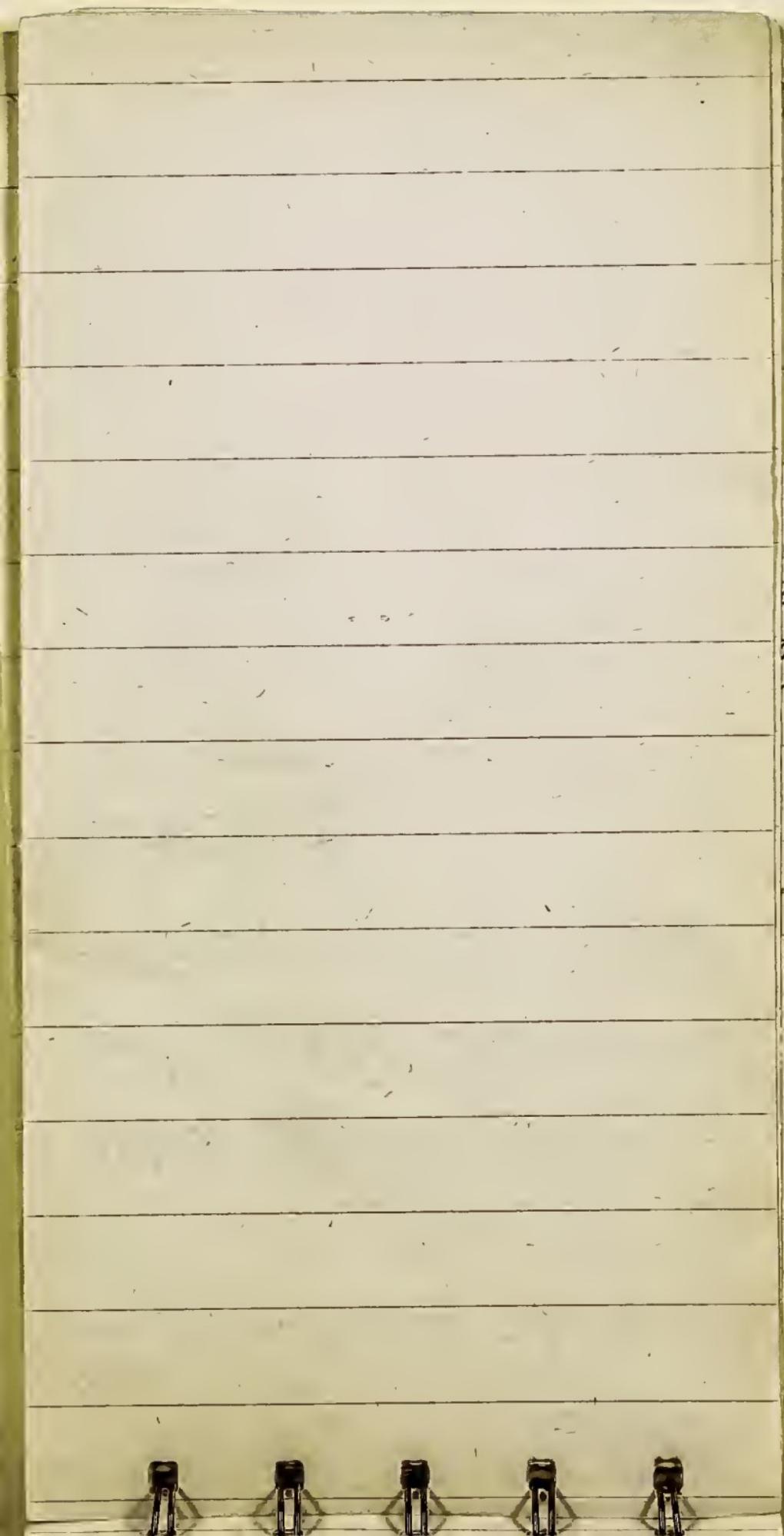
Coll. 5. 3 ft above Portland fm  
84 ft below Coll. 4

cyl. Horn corals, cayps, & small  
extms of trps.  
V. shaly; brchs. v. abundant

Brsh. not abundant. Corals

abundant at Coll. 4.

inf



Prospect of  
top of section  
fine laminoidal calcareousite

7/28/60.

Breccia, few bryozoans. 4 ft.

V. fine crinoid columns.

Coll. 6.

Unit 2.  
hole. in quarry face 6 ft.

Unit 3. Coll. 7. 3 ft

Black, fine calcarenite  
in beds 1 ins to 6 ins thick  
& bl. sh. <sup>1-2"</sup> interbeds. Bry.  
abundant. Sticks, buttons

Unit 4. Same as unit 3 but  
beds more massive 6"-8"  
each. Shale 1" beds. 5 ft

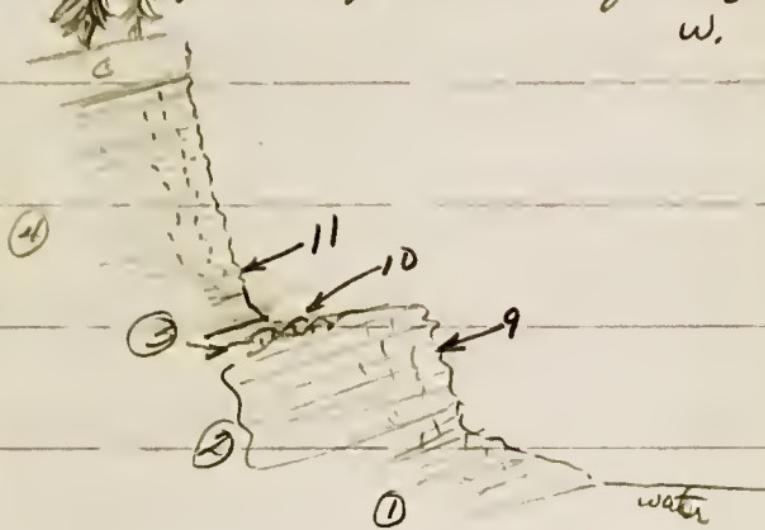
Coll. 8.

Unit 5.

Lowerings of Prospect River  
on east side of town  
North side of Road just north of bridge

E

w.



① Limestone, brown gray, <sup>v. silty,</sup> irregular bedding

2 to 4" thick, dark silty lenses which

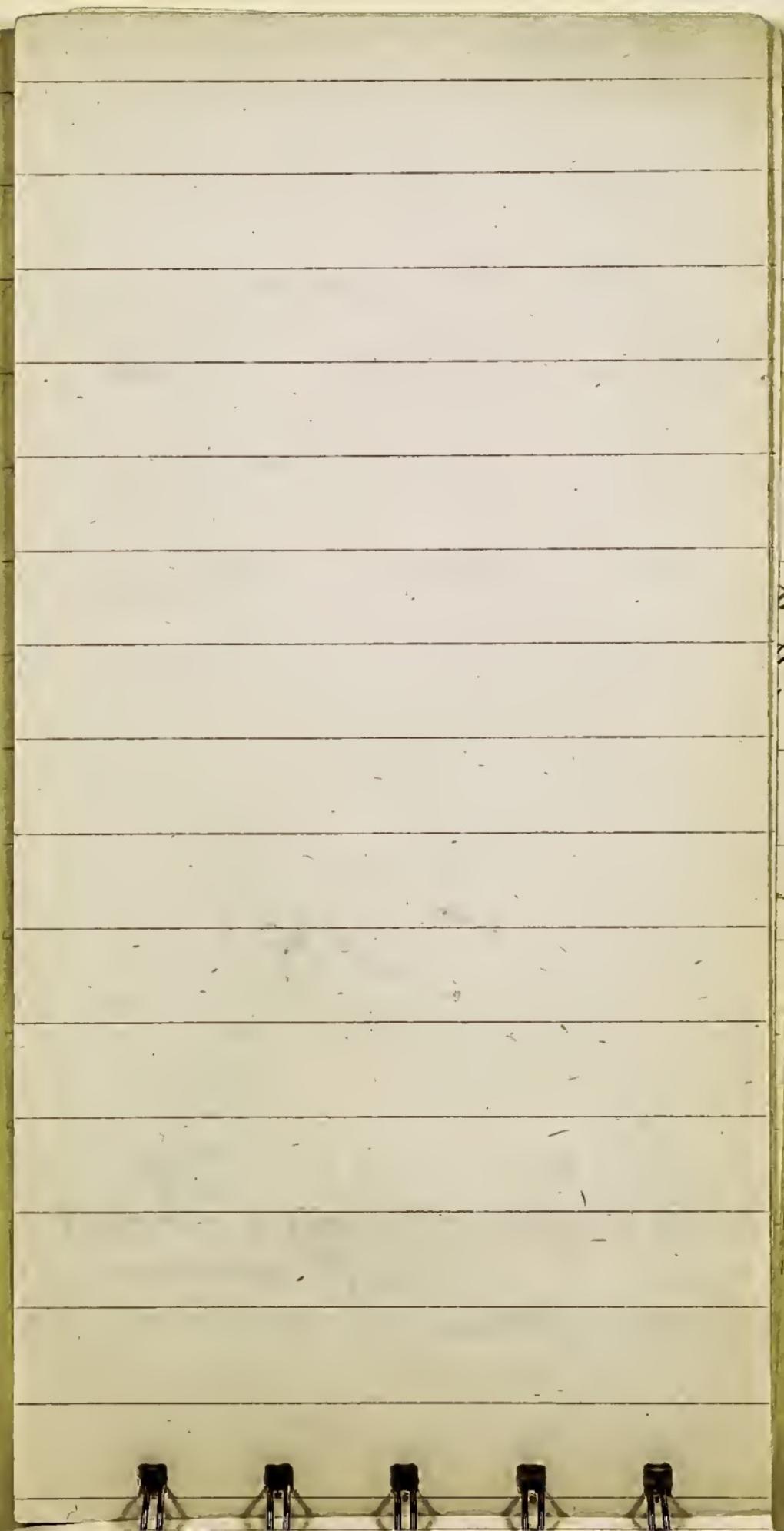
look like poorly rounded chert zones,

upper 2' feet lack these bands - 8' exposed

② ls., calcilutite and a few calcarenous

lenses, shaly partings have Pectenopsis

and other fossils, 4-6" beds Coll. 9

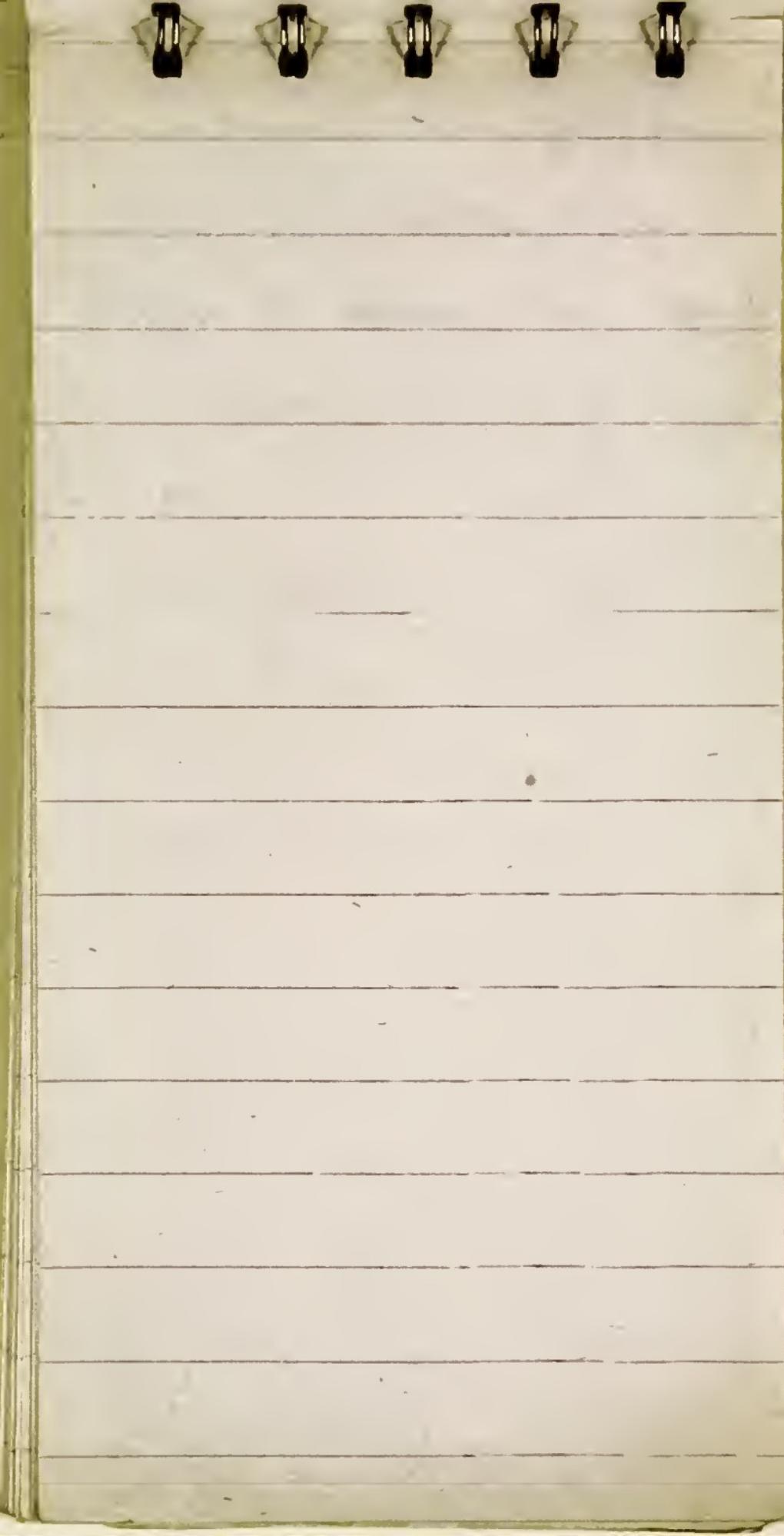


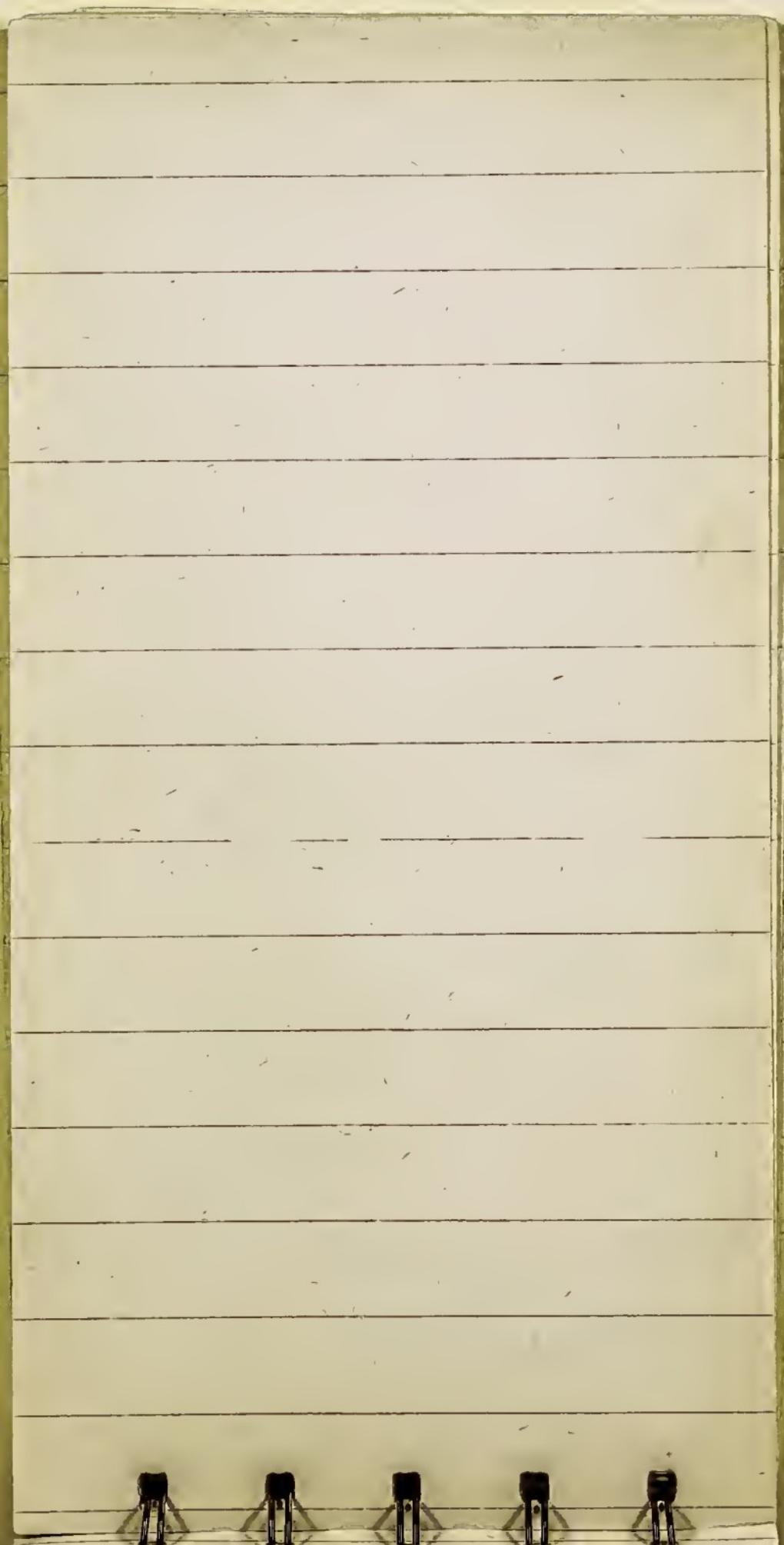
③ Calcarenous, v. dark gray, weathers brown,  
shaly, irregular  
beds, 2 to 4" thick, — 2'

Coll. 10

④ Calcarenous, shaly, and some  
calcareous — v. dark gray, some  
beds weathers light brown,  
3" beds,  $\frac{1}{2}$ " shale interbeds,  
bedding is nearly planar here,  
Coll. 11, dip 12 to 15° S.E., — 25'

Across the river the beds are  
folded in a S.W. trending monocline  
and we suspect a fault in  
the control on the bend in the  
river here.





Trenton River. 2  
7-28-60.

Culcrops in Trenton River at bridge at Trenton Falls townshp

Bed<sup>s</sup> outcrop N. side of bridge below dam (spillway)

Coll. 12.

4 ft.

3 ft above spillway

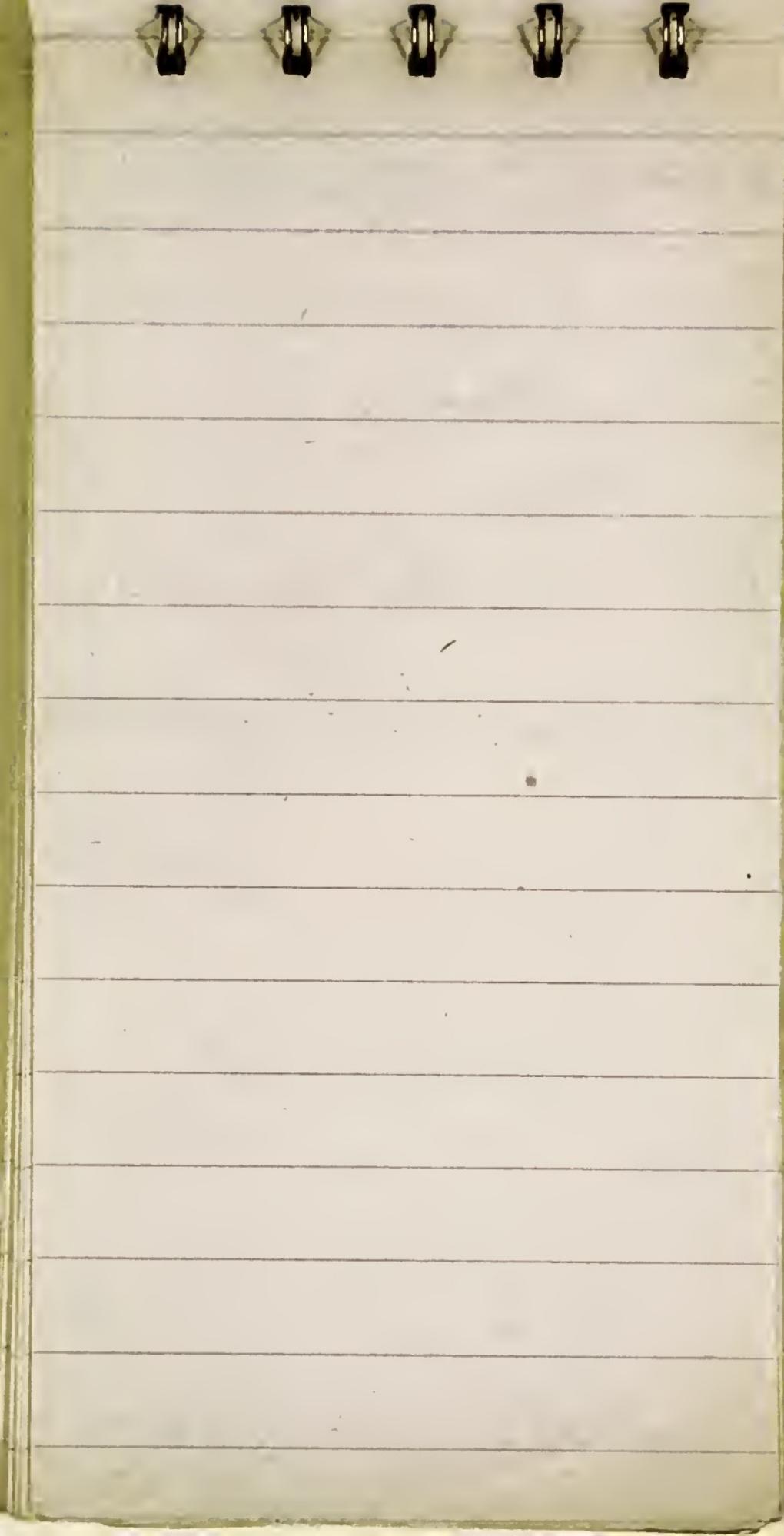
calcareous. Coll. 13. 3 ft.  
large Festuca gigas

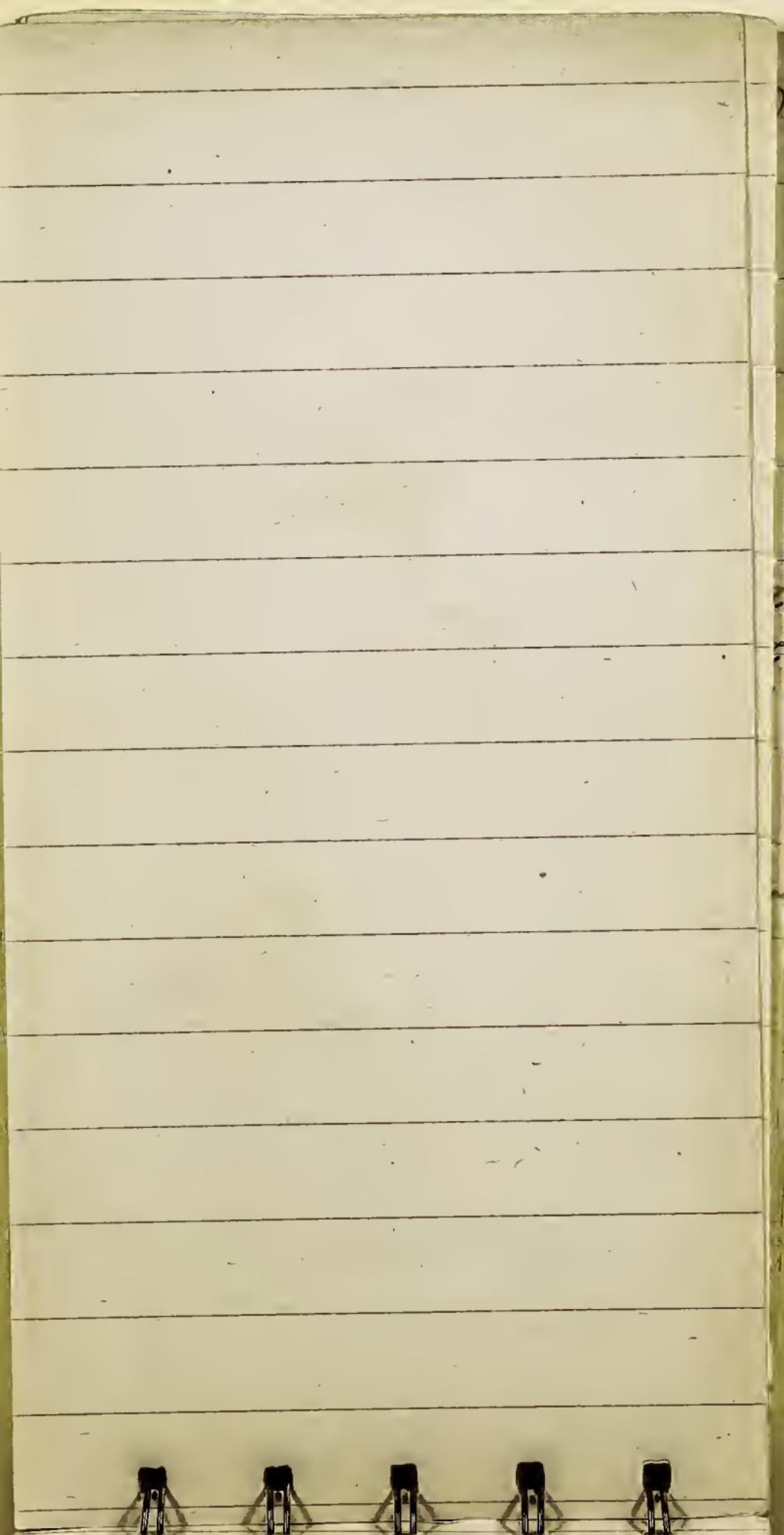
Coll. 14. Exposure in  
road cut at entrance to  
Mohawk Niagara Power

Corp. of 15 ft lower  
Trenton (Polaner member)

Thin bedded

Contains Prasopora





Niagara Mohawk - 7/29/60.  
~~Power Corp.~~ W. Canada C.  
Ta. - ~~water~~

above Coll. 12, 7/29/60

3' thick calcarenite - fine  
cortical columnals &  
orthocerids abundant. Some

at. Coll. 1.

Cell 21. 5 ft.  
15 ft above top of ledge  
or plant.

Bottom Rafinesquia

Coll 3, in unit 10 ft.

Calcareous (3'-6" beds)  
& shale 3"-4" beds. w.  
calcareous on top

7/29/60.

Coll. 4.

7/30/60.

Patent Hollow.

No coll.

Middleville.

Coll. made due east of  
village about 1 mile  
on road to ~~Fairfield~~ Fairfield

Acc to Cushing. N.Y.S.M. Bull. 77.  
both Bl.R. (5-15 ft) & Trenton.

Middleville.

Coll. sect.

pto

Cushing's quadrangle  
could be used for  
topographic map—  
for localities around  
Midlleville.

7/31/60

Ingham Mills

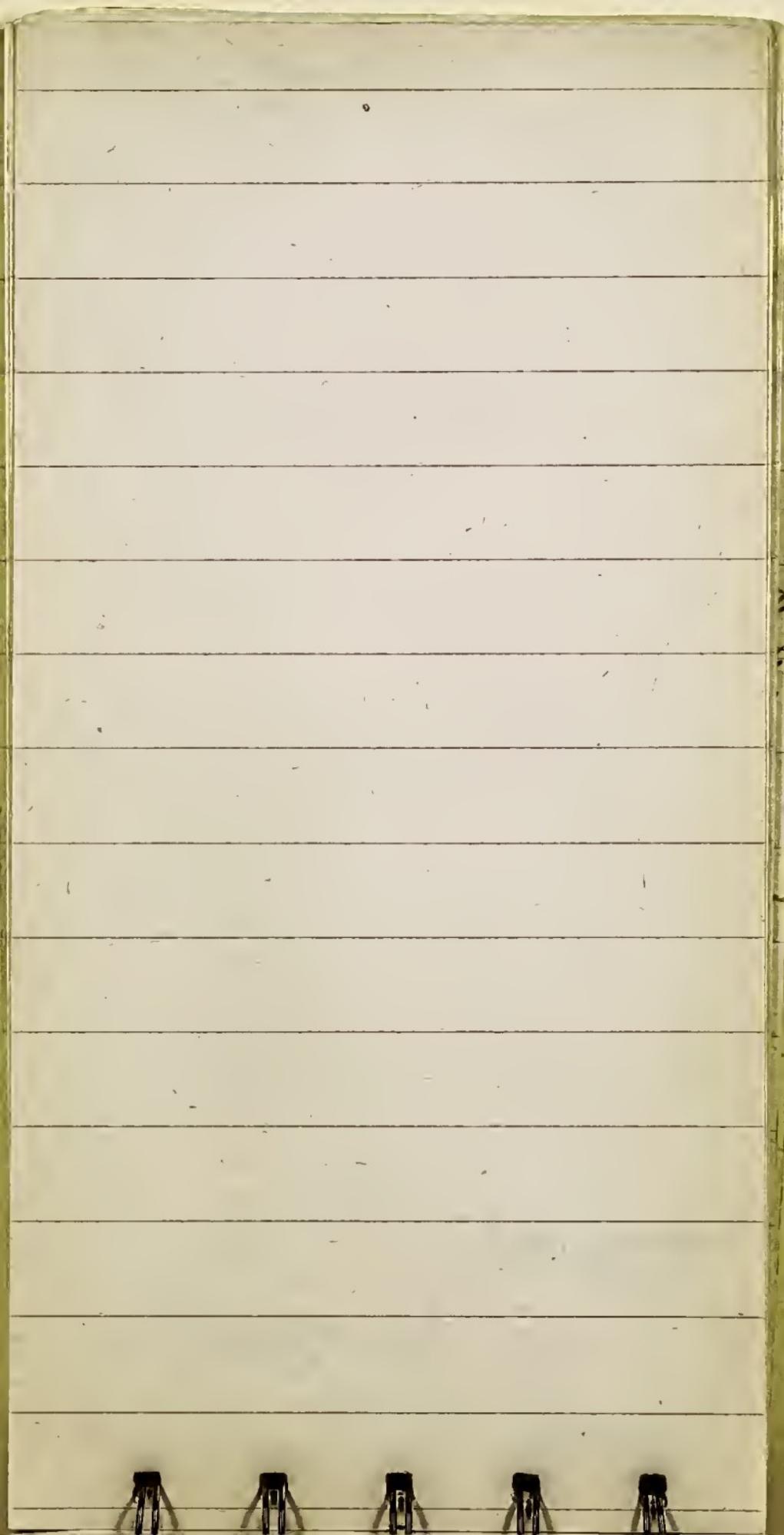
Never found outcrop

Dolgeville

8/1/60

Middletown -

New Haven.



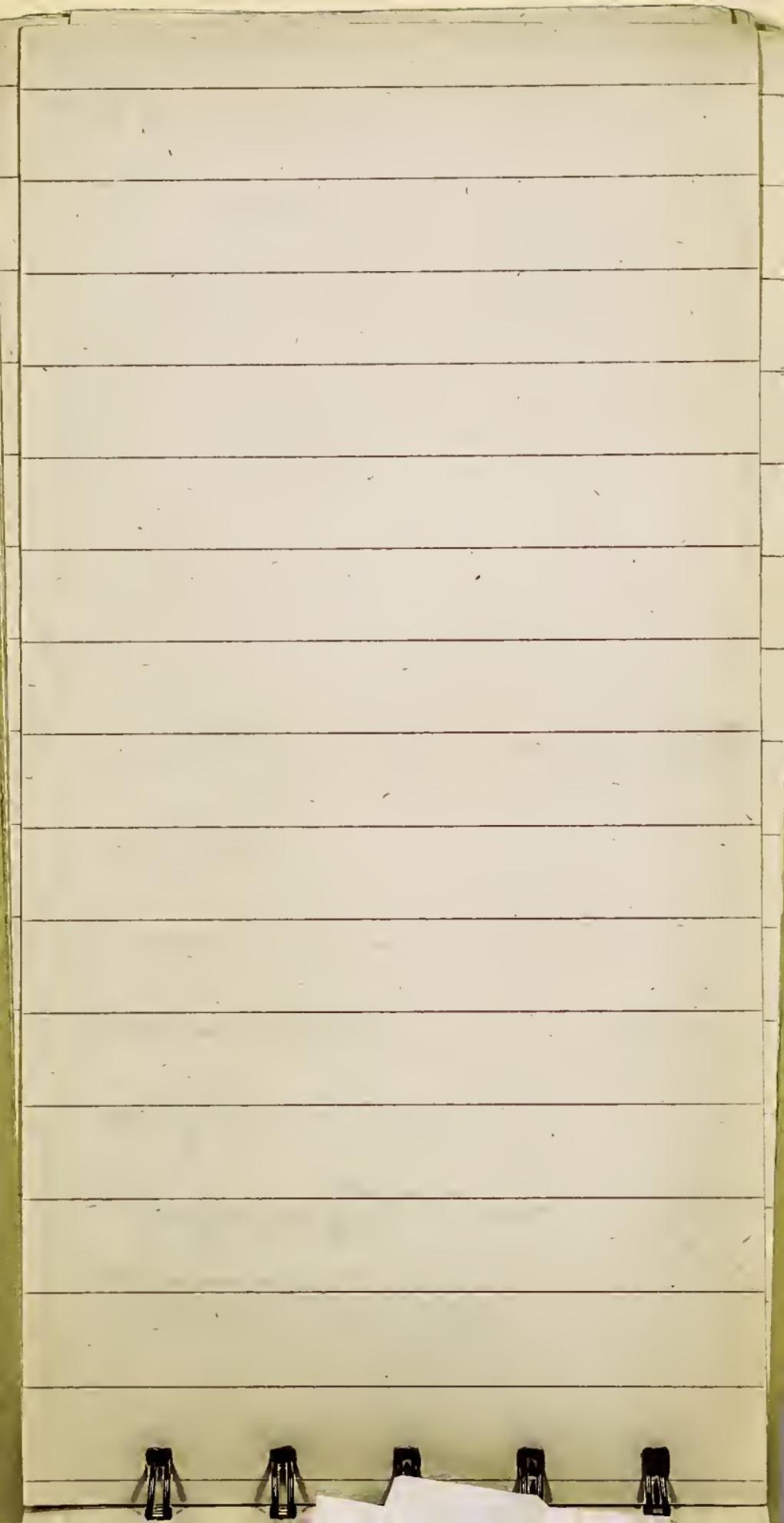


Hypothesis No. 1.

Note Oxley's type Chazy section does not commence at the base of Brainerd & Seely's section.

It appears that Coll. 7/24/60/10  
(with rugose coral) is on the line of strike of 8/19/59/T  
(with rugose corals + Columnaria).

Now if these outcrops lie at the same level as 7/24/60/10 in Chazy quarry



& are the

8/19/59 / The  
limestone  
thus visu-

as dip angle  
in various

due to g

(dip is a  
with see

difficult

In Chazy Quarry  
tetraeosal bed is 34 feet  
above Rosticellula

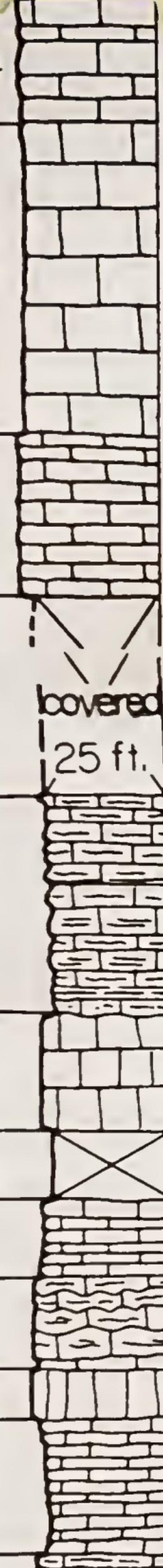
Fm.

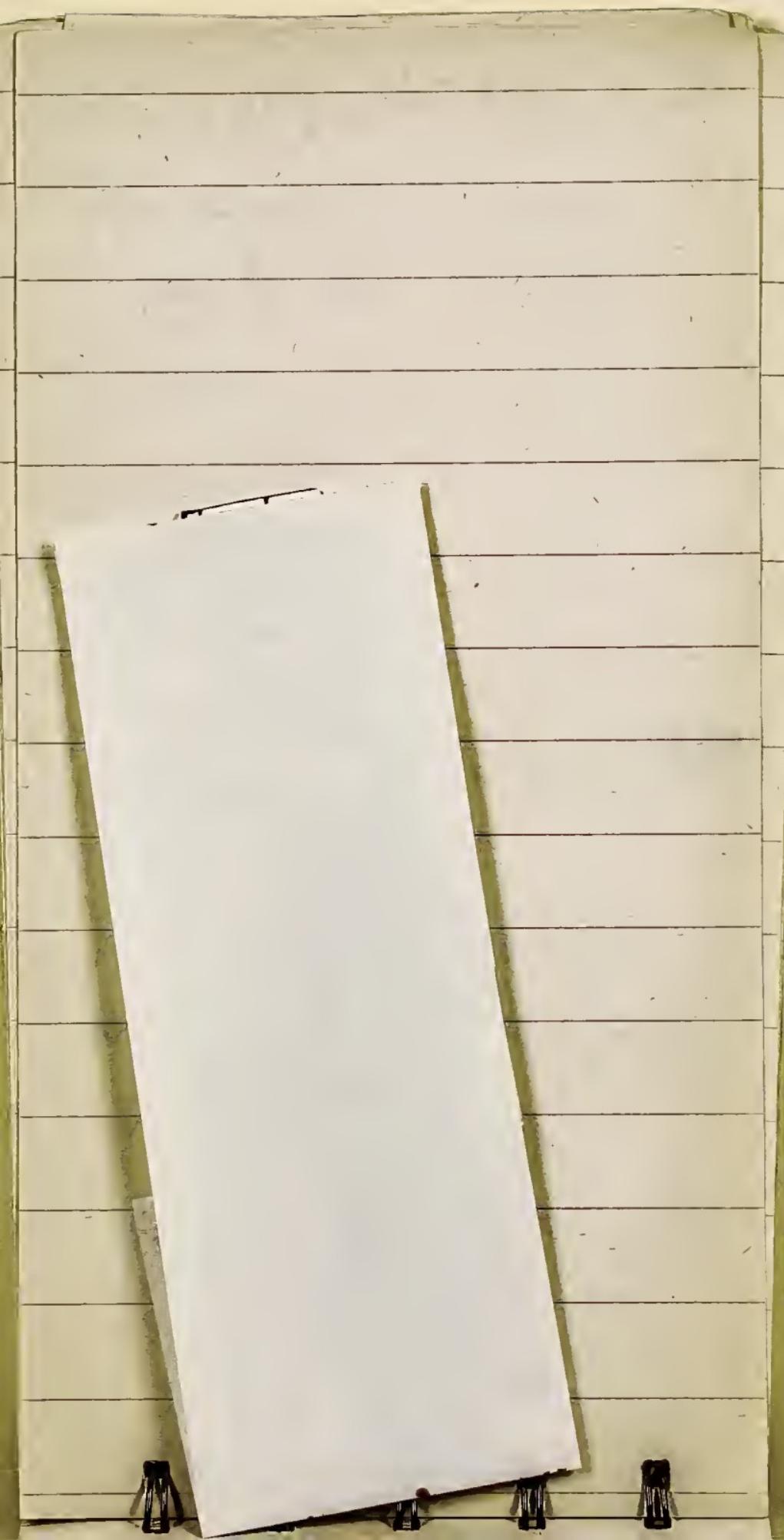
Chazy

Formation

Chazy

C-14  
C-13  
C-12  
C-11 covered  
25 ft.  
C-10  
C-9  
C-8  
C-7  
C-6  
C-5  
C-4  
C-3  
C-2 covered  
182 ft.  
C-1





& are the same as the etc.

8/19/59 /Trenton - Chazy  
landing we would  
thus visualize the beds  
as dipping shallowly  
in various directions  
due to gentle flexures  
(dip is about  $5-6^{\circ}$ ) &  
with reefs etc. it is  
difficult to offer exact  
dia.

In Chazy Quarry  
tetraeosal bed is  $\frac{3}{4}$  feet  
above Rosticellula

If project Rosticellula  
bed up dip to Sheldon  
have the relation  
would be fine. The  
occ. of Rosticellula at  
8/19/59/H would not be  
anomalous.

Prasopora occurring  
unit 10 34 feet above  
Rosticellula bed -  
— ie. in upper part of  
Chazy = lower part  
of Black River

